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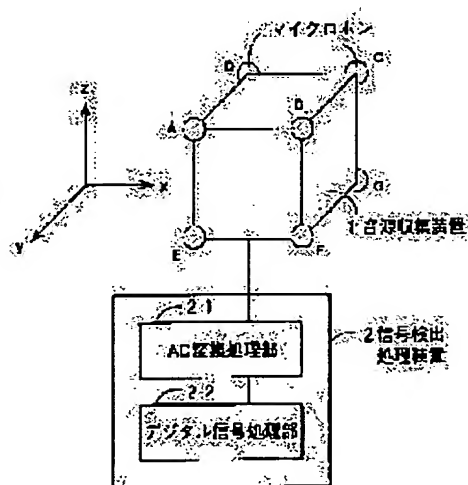
(54) SOUND SOURCE DIRECTION DETECTOR

(57)Abstract:

PROBLEM TO BE SOLVED: To enable detecting of the direction of a sound source positioned in an arbitrary direction in a three-dimensional space by specifying the sequence of microphones corresponding to the sequence of arrival of sound signals as detected by respective microphones arranged three-dimensionally.

SOLUTION: For example, a sound source collector 1 has microphones A-H arranged at respective eight tops of a solid box body. The microphones A-H herein used are non-directional and arranged three dimensionally to allow detecting of a sound signal with any of the microphones even when the signal arrives from an arbitrary direction in the entire space. The direction of the sound source thereof is judged based on the sequence of the microphones A-H corresponding to the sequence of the arrival of the sound signal detected by the microphones A-H. A signal detection processor 2 performs an analog/digital conversion to produce a digital signal with an A/D conversion processing part 21.

The digital signal processing part 22 is made up of a microcomputer to perform a processing for the judgment of the sound source or the like.



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